



National

SERIAL NUMBER T 12 055

Operating Instructions

Microwave Oven

Model NE-6790

650 Watts



Before operating this oven, please read these instructions completely.

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PRECAUTIONS IN THE USE OF MICROWAVE OVENS FOR HEATING FOOD

I INSPECTION FOR DAMAGE. A microwave oven should only be used if an inspection confirms all the following items:

1. The grille is not damaged or broken.
2. The door fits squarely and securely and opens and closes smoothly.
3. The door hinges are in good condition.
4. The door does not open more than a few millimetres without an audible operation of the safety switches.
5. The metal plates of a metal seal on the door are neither buckled nor deformed.
6. The door seals are neither covered with food nor have large burn marks.

II PRECAUTIONS. Microwave radiation from microwave ovens can cause harmful effects if the following precautions are not taken:

1. Never tamper with or inactivate the interlocking devices on the door.
2. Never poke an object, particularly a metal object, through the grille or between the door and the oven while the oven is operating.

3. Never place metal objects inside the oven. These include saucepans, trays or any other metal utensils or metal-rimmed or metal decorated utensils.
4. Clean the oven cavity, the door and the seals with water and a mild detergent at regular intervals. Never use any form of abrasive cleaner that may scratch or scour surfaces around the door.
5. Never use the oven without the trays provided by the manufacturer.
6. Never operate the oven without a load (i.e. an absorbing material such as food or water) in the oven cavity unless specifically allowed in the manufacturer's literature.
7. Never rest heavy objects such as food containers on the door while it is open.

Important Safety Instructions

When using electrical appliances, basic safety precautions should be followed, including the following:

WARNING—To reduce the risk of burns, electric shock, fire, injury to persons or exposure to excessive microwave energy:

1. Read all instructions before using this appliance.
 2. This appliance must be earthed. Connect only to properly earthed outlet. See "EARTHING INSTRUCTIONS" on this page.
 3. Some products such as whole eggs and sealed containers—for example, closed glass jars—may explode and should not be heated in this oven.
 4. Use this appliance only for its intended use as described in this manual.
 5. As with any appliance, close supervision is necessary when used by children.
 6. Do not operate this appliance if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
 7. This appliance should be serviced only by qualified service personnel. Contact nearest authorized
8. Do not cover or block any openings on this appliance.
 9. Do not use outdoors.
 10. Do not immerse cord or plug in water.
 11. Keep cord away from heated surfaces.
 12. Do not let cord hang over the edge of table or counter.
 13. When cleaning surfaces of door and oven that come together on closing the door, use only mild non-abrasive soaps or detergents applied with a sponge or soft cloth.
 14. To reduce the risk of fire in the oven cavity:
 - (a) Do not overcook food. Carefully attend appliance if paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.
 - (b) Remove wire twist-ties from bags before placing bag in oven.
 - (c) If materials inside the oven should ignite, keep oven door closed, turn oven off, and disconnect the power cord, or shut off power at the fuse or circuit breaker panel.

Installation

Examine Your Oven

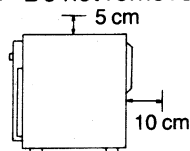
Unpack oven, remove all packing material, and examine the oven for any damage such as dents, broken door latches or cracks in the door. Notify dealer immediately if unit is damaged. Do NOT install or operate if the unit is damaged.

Removal of Vinyl-Cover

A vinyl-cover is wrapped around the simulated woodgrain cabinet to protect the outside body from scratches during transportation. Remove it before you use this microwave oven.

Placement Of Oven

1. Oven must be placed on a flat, stable surface. For proper operation, the oven must have sufficient air flow. Allow 10 cm of space in back and 5 cm of space on top of oven. Do not remove feet.



- a. Do NOT block air vents on the cabinet top. If they are blocked during operation, the oven may overheat. If the oven overheats, a thermal safety device will turn the oven off. The oven will remain inoperable until it has cooled.
 - b. Do NOT place oven near a hot or damp surface such as a gas, electric range or sink etc.
 - c. Do NOT operate oven when room humidity is too high.
2. This oven was manufactured for domestic use only.

Earthing Instructions

This appliance must be earthed. In the event of an electrical short circuit, earthing reduces the risk of electric shock by providing a return wire for the electric current. This appliance is equipped with a cord having a earthing wire with a earthing plug. The plug must be plugged into an outlet that is properly installed and earthed.

WARNING—Improper use of the earthing plug can result in a risk of electric shock.

Voltage Warning

The voltage used must be the same as specified on this microwave oven.

Using a higher voltage is dangerous and may result in a fire or other type of accident causing damage.

Low voltage will cause slow cooking.

National is not responsible for damage or poor performance resulting from the use of this microwave oven with a voltage other than that which is specified.

Circuits

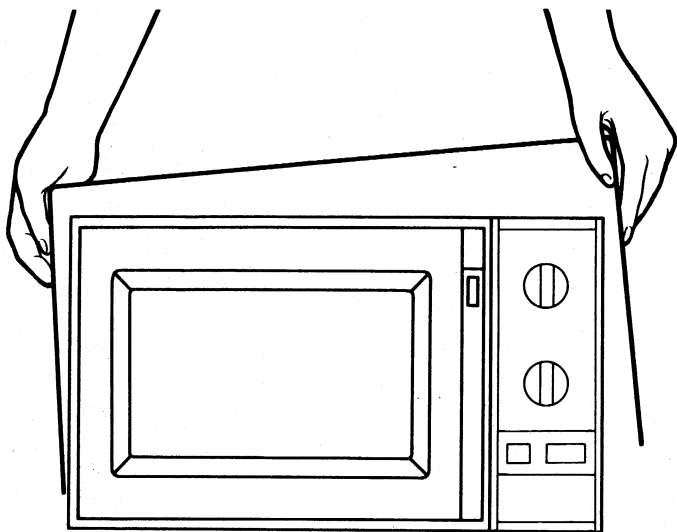
National microwave ovens should be operated on a separate 240 V 10A circuit from other appliances. Failure to do this may cause the power board fuse to blow, and/or food to cook slower.

Do not insert higher value fuses in the power board.

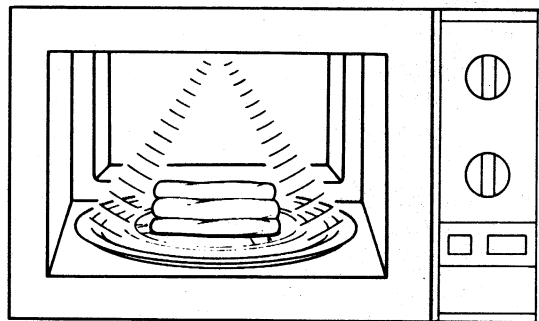
Safety Statements

General Use

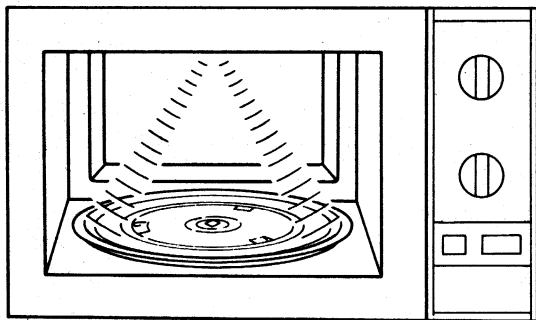
1. Do NOT attempt to tamper with or make any adjustments or repairs to door, control panel housing, safety interlocks switches or any other part of the oven. Do NOT remove outer panel from oven. Repairs should only be done by a qualified serviceperson.
2. Do NOT operate the oven empty. The microwave energy will reflect continuously throughout the oven if no food or water is present to absorb energy.
3. If a fire occurs in the oven, turn the Timer off and LEAVE DOOR CLOSED. Disconnect the power cord, or shut off power at the fuse or circuit breaker panel.
4. Do NOT attempt to dry clothes, newspapers or other materials in oven. They may catch on fire.
5. Do NOT use recycled paper products, as they may contain impurities which may cause sparks and/or fires when used.
6. Do NOT use newspapers or paper bags for cooking.
7. Do NOT hit or strike control panel. Damage to controls may occur.
8. POT HOLDERS may be needed when removing cooked food. Heat is transferred from the hot food to the cooking container.
9. Do NOT store flammable materials next to, on top, or in the oven. It could be a fire hazard.
10. Do NOT use the oven without the glass tray and roller ring in place.



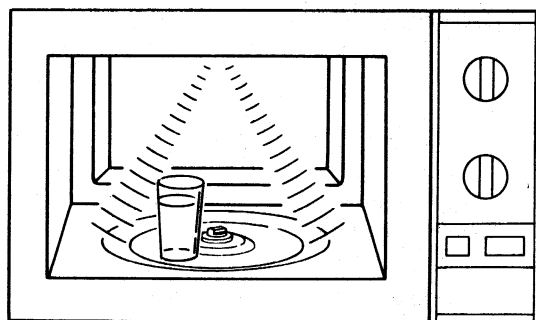
Do NOT remove outer panel from oven.



Do NOT dry clothes or newspapers.



Do NOT operate the oven empty.



Do NOT use the oven without the glass tray and roller ring in place.

Food

1. Never use your microwave oven for **HOME CANNING**. The oven is not designed for canning. Improperly canned food may spoil and be dangerous to consume.
Leave canning to the proven methods of water bath or pressure canner. (See your cookbook for further information.)
2. **COOKING TIMES** given in the cookbook are **APPROXIMATE**. Factors that may affect cooking time are: preferred degree of cooking, starting temperature, altitude, volume, size and shape of foods and utensils used. As you become familiar with the oven, you will be able to adjust for these factors.
3. It is better to **UNDERCOOK RATHER THAN OVERCOOK** foods. If food is undercooked, it can always be returned to the oven for further cooking. If food is overcooked, nothing can be done. Always start with minimum cooking times.
4. **SMALL QUANTITIES** of food or foods with **LOW MOISTURE** content can burn, dry out or catch on fire if cooked too long. If a fire occurs, turn the Timer off and leave oven door closed.
5. Do **NOT** boil eggs in their shell. Pressure may build up and the eggs will explode.
6. Potatoes, apples, egg yolks, whole acorn squash, sausage are examples of food with **NONPOROUS SKINS**. These must be pierced using such as fork or stick before cooking to prevent bursting.
7. Do **NOT** attempt to deep fat fry in your oven.
8. Use **MEAT THERMOMETER** to check the degree of cooking of roasts and poultry. If undercooked, return to oven and cook a few more minutes at the recommended power level. **DO NOT USE A CONVENTIONAL MEAT THERMOMETER IN THE MICROWAVE OVEN.** (See your cookbook for further information).
2. **METAL CONTAINERS** or dishes with metallic rims should not be used. Arcing may occur.
3. **METAL TWIST-TIES** may not be used in the microwave oven.
4. Do **NOT** use **SEALED JARS** or **NARROW NECK** bottles for cooking or reheating. They may shatter.
5. Do **NOT** use **CONVENTIONAL THERMOMETERS** in the microwave oven. They may cause arcing.
6. Remove **PLASTIC STORE WRAPS**, before cooking or defrosting in the oven.
7. When using foil, skewers, warming rack or utensils made of metal in the oven, allow at least one inch of space between metal material and interior oven walls. If arcing (sparking) occurs, remove metal material (skewers, etc.) and/or transfer to a non-metallic container.

Roller Ring

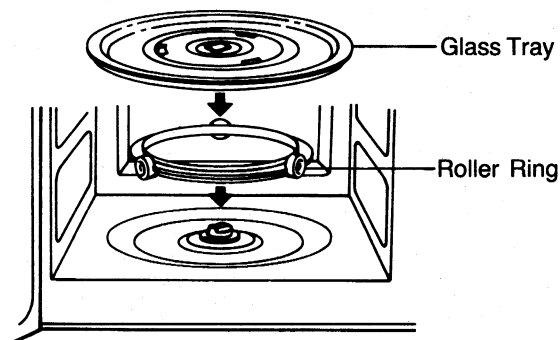
1. The **ROLLER RING** and oven floor should be cleaned frequently to prevent excessive noise and food particle build up.
2. The **ROLLER RING** **MUST ALWAYS** be used for cooking together with the Glass Tray.

Glass Tray

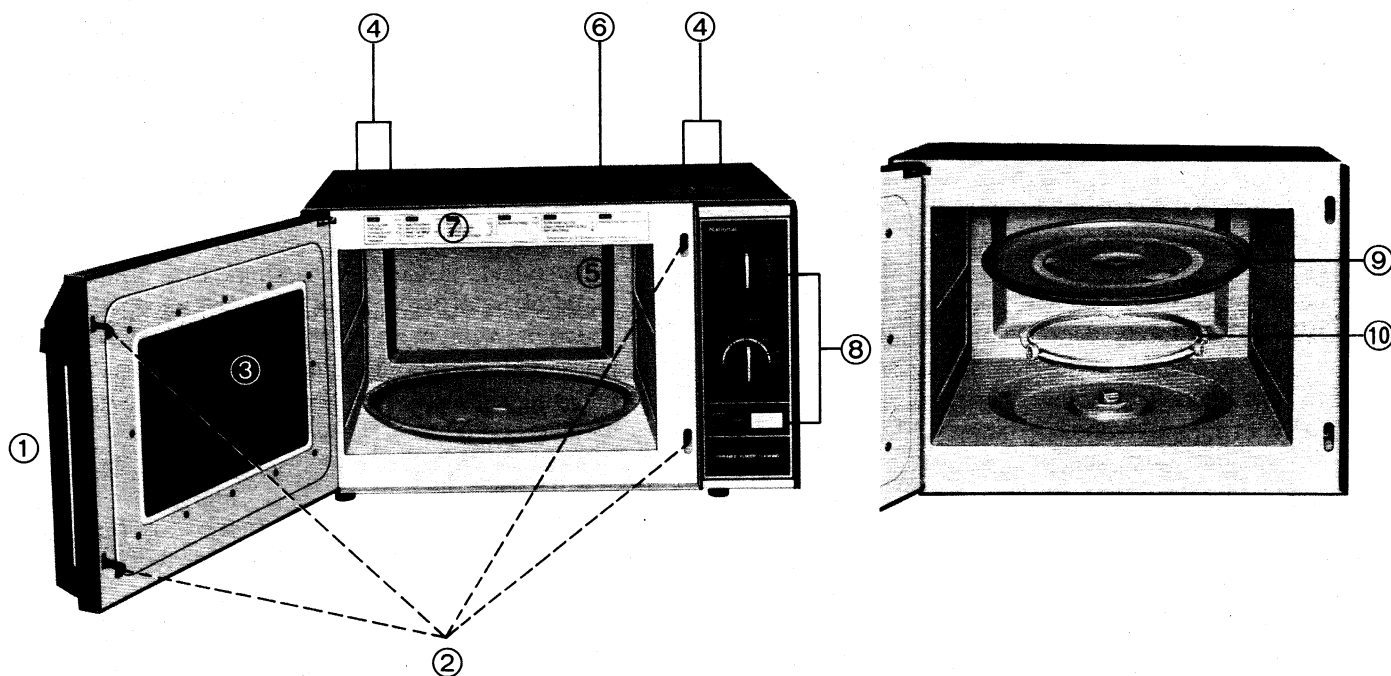
1. Do **NOT** operate the oven without the Glass Tray in place.
2. Do **NOT** use any other Glass Tray with this oven.
3. If Glass Tray is hot, **ALLOW TO COOL** before cleaning or placing it in water.
4. Do **NOT** cook directly on the Glass Tray.
5. Do **NOT** place hot food or containers on a cold tray. Conversely, frozen food or containers on a hot tray.

Utensils

1. **MICROWAVE BROWNING DISHES** or **GRILLS** are designed for microwave cooking only. Preheating times vary depending on the size of the browning dish and food being cooked. Always follow instructions provided by the browning dish or grill manufacturer. **DO NOT PREHEAT BROWNING DISH ON THE GLASS TRAY MORE THAN 8 MINUTES.**



Feature Diagram



① Oven Door Handle

Button on door handle must be depressed to open door.

② Door Safety Lock System

Before any cooking function can begin, oven door must be securely shut.

③ Oven Window

④ Oven Air Vents

Never block air vents during cooking.

⑤ Oven Light

Will turn on when timer is set. It will also remain on if the door is opened during cooking. This does not indicate that microwave energy is present. Once the door is opened microwave energy will cease.

⑥ Oven Light Cover

Allows easy access to replace oven light.

⑦ Recipe Guide Sheet

⑧ Control Panel

See page 7.

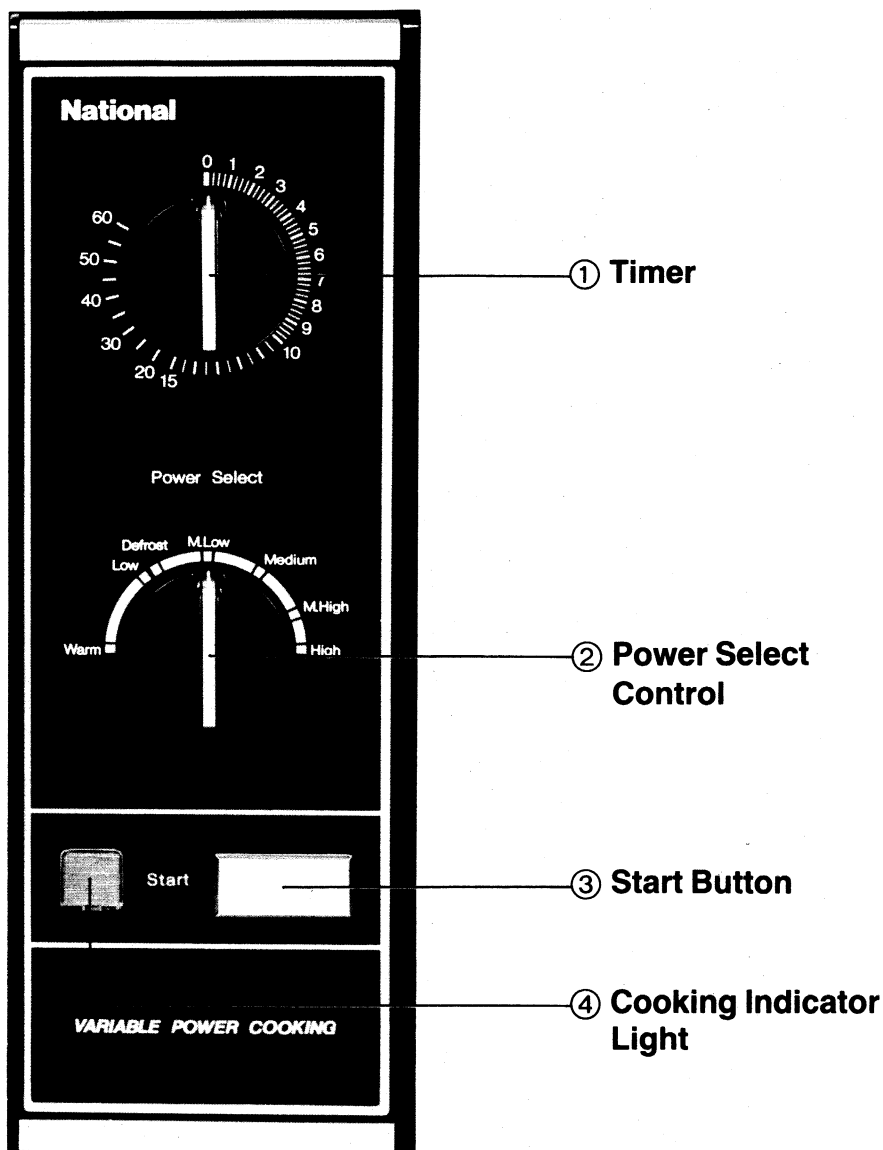
⑨ Glass Tray

Must be placed in the oven before cooking.

⑩ Roller Ring

Must be placed in the oven before cooking.

Control Panel



① **Timer**
Turn to set cooking time up to 60 minutes.

③ **Start Button**
Press to start cooking.

② **Power Select Control**
Turn to choose cooking power from High to Warm.

④ **Cooking Indicator Light**
Will glow during cooking.

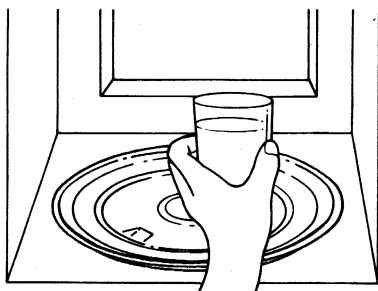
High (approx. 650 watts/Full power)
 M. High (approx. 580 watts/90% power)
 Medium (approx. 450 watts/70% power)
 M. Low (approx. 320 watts/50% power)
 Defrost (approx. 210 watts/35% power)
 Low (approx. 180 watts/30% power)
 Warm (approx. 65 watts/10% power)

NOTE: It can be set at any position between above power levels when needed.

Operation Check

Examine the new oven for any evidence of shipping damage. Check the operation when you unpack the unit and then at any time you are not sure the oven is working properly.

1. Plug the cord into a three-prong earthed wall receptacle (240 V).
2. Place glass tray and roller ring properly inside the oven cavity.
3. Place a cup of water (at room temperature) on the glass tray.



4. Close the door.
5. Choose cooking power by setting Power Select Control to "High" position.
6. Set Timer to 2 to 3 minutes and press Start Button. (Oven light and Cooking Indicator Light turn on. Turntable rotates).
7. After 2 to 3 minutes, a bell will ring and the unit will turn off. (Oven light and Cooking Indicator Light turn off. Turntable stops.)

8. If oven is operating normally, the water should be boiling.

Note: If lower cooking power (example: LOW) is selected, it will take a longer time to heat the water to a boil.

If water is not boiling, please check following points.

- 1) temperature of water before test
- 2) amount of water
- 3) container type and construction
- 4) supply voltage
- 5) outlet socket
- 6) altitude

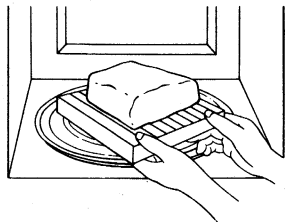
9. After cooking is completed, make sure Timer is set to "0" position.

If the Timer is not set to the "0" position, the oven light will remain on.

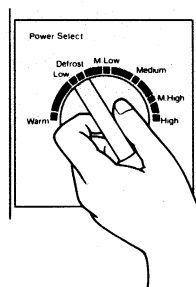


How to Operate

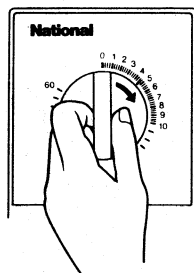
1. Make sure unit is plugged into a three-prong earthed 240 V circuit.
2. Open the door and place the roller ring and glass tray into the bottom of the oven. **PLACE CONTAINER OF FOOD** on the glass tray for cooking. Do not cook directly on the glass tray.



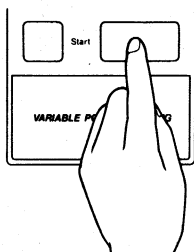
3. **CLOSE THE DOOR** securely.
4. **CHOOSE COOKING POWER** by setting Power Select Control to desired position. Refer to cookbook for suggested power levels.



5. **SET A DESIRED COOKING TIME.** Consult the cookbook for recipe timing.
► Oven light turns on.



6. **PRESS START BUTTON.**
► Cooking Indicator Light turns on. Turntable rotates.



7. You may open the door while the oven is operating. As soon as the door is opened, the safety mechanisms stop microwave power and cooking time.
► Oven light keeps on. Cooking Indicator Light turns off.
To continue cooking, close door and press Start Button again.
► Oven light keeps on. Cooking Indicator Light turns on.
If you wish to change the time during cooking, simply adjust the Timer to desired minutes.
8. When the time has elapsed, a bell will ring and the unit will turn off.
► Oven light and Indicator Light turn off. Turntable stops.
If additional cooking time is needed and the door has not been opened, the oven will automatically start when the Timer is reset.

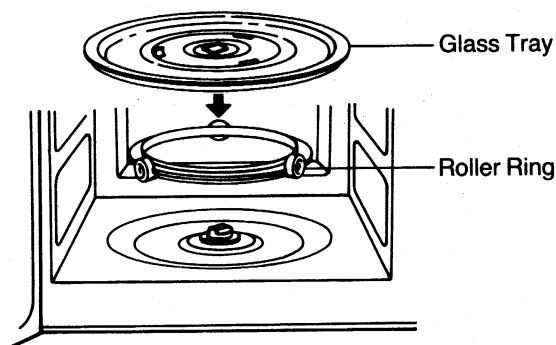
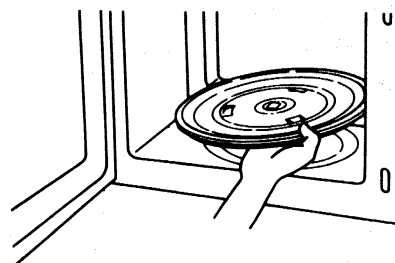
NOTE: 1. When setting timer for less than 2 minutes, turn timer past 2 minutes and then return to correct timing.



2. If you decide to finish cooking before the set time has elapsed, the timer will remain at the position it was in when cooking was stopped. Turn the timer to "0" position to turn off the oven light.
3. Various clicking noises may be heard when turning the Power Select Control. This is normal and does not affect the operation of your microwave oven.

Care of Your Microwave Oven

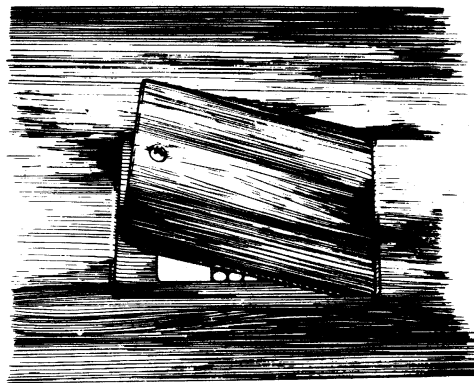
1. Turn the oven off and remove the power plug from the wall socket before cleaning.
2. Keep the inside of the oven clean. When food spatters or spilled liquids adhere to oven walls, wipe with a damp cloth. Mild detergent may be used if the oven gets very dirty. The use of harsh detergent or abrasives is not recommended.
3. The outside oven surface should be cleaned with soap and water, rinsed and dried with a soft cloth. To prevent damage to the operating parts inside the oven, water should not be allowed to seep into the ventilation openings.
4. If the Control Panel becomes wet, clean with a soft, dry cloth. Do not use harsh detergents or abrasives on Control Panel.
When cleaning the Control Panel, leave oven door open to prevent unit from accidentally turning on.
5. If steam accumulates inside or around the outside of the oven door, wipe with a soft cloth. This may occur when the microwave oven is operated under high humidity conditions and in no way indicates malfunction of the unit.
6. The glass tray should be cleaned frequently. Wash the tray in warm sudsy water and rinse and wipe dry.
7. The roller ring and cavity floor should be cleaned frequently to avoid excessive noise and for best operation.
Simply wipe the bottom surface of the oven with mild detergent water or window cleaner and dry. The roller ring may be washed in mild sudsy water. When removing the roller ring from cavity floor for cleaning, be sure to replace in the proper position.



Replacement of Oven Light

Should it become necessary to replace the oven light, you can replace it yourself. Please follow the directions below carefully.

- Step 1.** Turn off the oven and unplug it.
- Step 2.** Remove the screw from the oven light cover which is located on the front top of the cabinet. Lift the cover panel.
- Step 3.** Replace the oven light with the correct type 240 V, 25 W, bulb. If this bulb is not available locally, contact the nearest authorized National Service Centre.
- Step 4.** Replace the oven light cover and secure with the screw.



Questions & Answers

Q: I accidentally ran my microwave oven without any food in it. Is it damaged?

A: We do not recommend operating the microwave oven without any food. However, running the oven empty for a short time should not damage the oven.

Q: Can the oven be used with the glass tray or roller ring removed?

A: No. Both the glass tray and roller ring must be positioned correctly in the oven before cooking.

Q: Can TV dinner trays be placed in the oven?

A: Foil containers 2 cm deep or less can be used to heat food in the microwave oven. Make sure foil covers are removed from top of container. The container should not touch oven sides, arcing may occur.

Q: My oven light dims. Is this correct?

A: Yes. When cooking with a power other than HIGH, the oven must cycle to obtain the lower power levels. The oven light will dim and clicking noises may be heard when the oven cycles.

Q: When I turn on my oven, there is noise coming from the glass tray.

A: This noise occurs when the roller ring and oven bottom are dirty. Frequent cleaning of these parts should eliminate or reduce the noise.

Q: Can I set Power Select Control at the position besides 7 power levels printed in the Control Panel?

A: Yes, you can. However no recipes in the cookbook suggest any other powers besides the 7 power levels. Please be careful to set recommended power level correctly to avoid overcooking or undercooking the food.

Q: My microwave causes interference with my TV. Is this normal?

A: Some radio and TV interference might occur when you cook with the microwave oven. This interference is similar to the interference caused by small appliances such as mixers, vacuums, blow dryers, etc. It does not indicate a problem with your oven.

Q: Why does steam accumulate on the oven door?

A: During cooking, steam is given off from the food. Most of the steam is removed from the oven by the air which circulates in the oven cavity. However, some steam will condense on cooler surfaces such as the oven door. This is normal.

Q: Sometimes warm air comes from the oven vents. Why?

A: The heat given off from the cooking food warms the air in the oven cavity. This warmed air is carried out of the oven by the air flow pattern in the oven. There are no microwaves in the air. The oven vents should never be blocked during cooking.

Q: Why won't my oven turn on?

A: When the oven does not turn on, check the following:

1. Is the oven plugged in securely? Remove plug from outlet, wait 10 seconds and reinsert.
2. Check circuit breaker or fuse. Reset circuit breaker or replace fuse if it is tripped or blown.
3. If the circuit breaker or fuse is all right, plug another appliance into the outlet. If the other appliance works, there probably is a problem with the oven. If the other appliance does not work, there probably is a problem with the outlet. If it seems there is a problem with the oven, contact an authorized National Service Centre.

Technical Specifications

Power Source: 240 V, 50 Hz, 3-prong earthed
Power Consumption: 5.7 Amps, 1,300 W
Output: 650 W full power
Outside Dimensions: 375 mm (H) × 620 mm (W) × 460 mm (D)
Oven Cavity
Dimensions: 259 mm (H) × 395 mm (W) × 395 mm (D)
Operating
Frequency: 2,450 MHz
Timer: 2-speed 60 minutes
rotary timer
Uncrated Weight: Approx. 29 kg
Shipping Weight: Approx. 33 kg

Weight and dimensions shown are approximate.



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Specifications subject to change without notice. Printed in Japan.